NC/QC/YPD/2020-21/FP-C1 **Date: 10-06-2020**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to footpath and Roads in ward no. 07.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Pruthviraj N, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**160 min**	Shall not be less than 30 min
2	Final setting time	**274 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.81 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.93 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.71 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YPD/2020-21/FP-FA1 **Date: 10-06-2020**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Improvements to footpath and Roads in ward no. 07.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Pruthviraj N, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**98.05**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**84.40**	60-95	75-100	85-100	
01.18	**71.15**	30-70	55-90	75-100	
600. mic	**40.60**	15.34	35-59	60-79	
300.mic	**22.75**	5-20	8-30	12-40	
150.mic	**8.10**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.53%**	-----
2	Silt Content	----	**0.59%**	Not more than 8%
3	Specific Gravity	----	**2.60**	-------

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NC/QC/YPD/2020-21/FP-CA1

Date: 10-06-2020

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvements to footpath and Roads in ward no. 07.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Pruthviraj N, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.10	85-100	90 - 100
10 mm	52.35	0 - 20	25 - 55
4.75 mm	4.60	0 - 5	0 - 10

TABLE 1. 2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	26.49%	Not to exceed 25 %
2.	Crushing value	28.81%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/YPD/2020-21/FP-C2

Date: 15-06-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to footpath and Roads in ward no. 07.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Pruthviraj N, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test.	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**152 min**	Shall not be less than 30 min
2	Final setting time	**261 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.86 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.97 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.79 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YPD/2020-21/FP-PCC1

Date: 15-06-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to footpath and Roads in ward no. 07.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Pruthviraj N, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	68.35	0 -20	30- 70
10mm	24.10	0 -5	10- 35
4.75mm	2.95	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.25	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	81.60	60-95	75-100	85-100	
01.18	74.35	30-70	55-90	75-100	
600.mic	44.90	15-34	35-59	60-79	
300.mic	20.70	5-20	8-30	12-40	
150.mic	6.25	0-10	0-10	0-10	

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NC/QC/YPD/2020-21/FP-CB1 Date: 23-06-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to footpath and Roads in ward no. 07.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Pruthviraj N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-06-20	23-06-20	07	22500	300	13.33	**13.41**
	002	"	"	"	"	310	13.78	
	003	"	"	"	"	295	13.11	

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NC/QC/YPD/2020-21/FP-CB2 Date: 27-06-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to footpath and Roads in ward no. 07.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Pruthviraj N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-06-20	27-06-20	07	22500	305	13.56	**13.48**
	002	"	"	"	"	290	12.89	
	003	"	"	"	"	315	14.00	

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NC/QC/YPD/2020-21/FP-CB1A

Date: 14-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to footpath and Roads in ward no. 07.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Pruthviraj N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-06-20	14-07-20	28	22500	390	17.33	**17.56**
	002	"	"	"	"	400	17.78	
	003	"	"	"	"	395	17.56	

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NC/QC/YPD/2020-21/FP-CB2A

Date: 18-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to footpath and Roads in ward no. 07.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Pruthviraj N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-06-20	18-07-20	28	22500	395	17.56	**17.63**
	002	"	"	"	"	390	17.33	
	003	"	"	"	"	405	18.00	

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